

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2278	705/2.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/15 19:29
L2	1273	705/3.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/15 19:29
L3	1483	709/200.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/15 19:29
L4	953	719/310.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/15 19:29
L5	9983	709/201-203.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/15 19:29
L6	190	719/320, "317".ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/15 19:30
L7	439	719/320,317.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/15 19:30
L8	189	719/314.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/15 19:30
L9	6523	707/10.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/15 19:30
L10	1273	705/3.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/15 19:30
L11	1735	713/186,182.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/15 19:30

EAST Search History

L12	22253	709/217-225.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/15 19:31
L13	2712	707/200.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/15 19:31
L14	182	382/116.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/15 19:31
L15	644	607/60.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/15 19:31
L16	3229	709/229.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/15 19:31
L17	204	340/539.12.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/15 19:31
L18	122	706/924.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/15 19:31
L19	45004	I1 or I2 or I3 or I4 or I5 or I6 or I7 or I8 or I9 or I10 or I11 or I12 or I13 or I14 or I15 or I16 or I17 or I18	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/15 19:32
L20	2110	I19 and authenticat\$5 same level	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/15 19:33
L21	149	I20 and rank\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/15 19:33
S1	267497	network	USPAT	OR	ON	2004/01/21 18:55
S2	35227	network and server	USPAT	OR	ON	2003/10/05 13:31
S3	17236	(network and server) and client	USPAT	OR	ON	2003/10/05 13:31
S4	16722	((network and server) and client) and stor\$5	USPAT	OR	ON	2003/10/05 13:32
S5	578	(((network and server) and client) and stor\$5) and patient	USPAT	OR	ON	2003/10/05 13:32

EAST Search History

S6	468	((((network and server) and client) and stor\$5) and patient) and request\$3	USPAT	OR	ON	2003/10/05 13:33
S7	108	(((((network and server) and client) and stor\$5) and patient) and request\$3) and authentica\$5	USPAT	OR	ON	2003/10/05 13:33
S8	107	((((((network and server) and client) and stor\$5) and patient) and request\$3) and authentica\$5) and time\$5	USPAT	OR	ON	2003/10/05 13:34
S9	3	("5899998") or ("6611846") or ("6280380").PN.	USPAT; USOCR	OR	OFF	2003/10/05 13:35
S10	3	("5899998") or ("6611846") or ("6280380").PN.) and (patient same information)	USPAT	OR	ON	2004/01/21 20:59
S11	1	(((("5899998") or ("6611846") or ("6280380").PN.) and (patient same information)) and (finger\$8 and protect\$3)	USPAT	OR	ON	2003/10/05 13:40
S12	17	network and patient and (DNA) and sex and emergency and password	US-PGPUB; USPAT	OR	ON	2004/01/21 19:22
S13	0	network and patient and (DNA) and sex and (finger adj print) and password	US-PGPUB; USPAT	OR	ON	2004/01/21 19:02
S14	13	network and patient and (DNA) and sex and (fingerprint) and password	US-PGPUB; USPAT	OR	ON	2004/01/21 19:13
S15	11	protect\$3 near3 patient near2 information	USPAT	OR	OFF	2004/01/21 19:09
S16	0	network and ((protect\$3 near3 information) same (DNA) same sex same (fingerprint) same password)	US-PGPUB; USPAT	OR	ON	2004/01/21 19:20
S17	0	network and ((DNA) same sex same (fingerprint) same password)	US-PGPUB; USPAT	OR	ON	2004/01/21 19:14
S18	0	((DNA) same sex same (fingerprint) same password)	US-PGPUB; USPAT	OR	ON	2004/01/21 19:14
S19	44	((DNA) same (fingerprint) same password)	US-PGPUB; USPAT	OR	ON	2004/01/21 19:14
S20	0	network and ((protect\$3 near3 information) same sex same (fingerprint) same password)	US-PGPUB; USPAT	OR	ON	2004/01/21 19:20
S21	0	((protect\$3 near3 information) same sex same (fingerprint) same password)	US-PGPUB; USPAT	OR	ON	2004/01/21 19:20

EAST Search History

S22	0	(protect\$3 same sex same (fingerprint) same password)	US-PGPUB; USPAT	OR	ON	2004/01/21 19:20
S23	10	(patient near information) near5 unauthori\$6	US-PGPUB; USPAT	OR	ON	2004/01/21 19:22
S24	246	manag\$3 adj personal adj information	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/01/21 20:59
S25	11	(manag\$3 adj personal adj information) and network and password and fingerprint	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/01/21 21:02
S26	65	(manag\$3 adj personal adj information) and network and password	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/01/21 21:02
S27	54	((manag\$3 adj personal adj information) and network and password) not ((manag\$3 adj personal adj information) and network and password and fingerprint)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/01/21 21:13
S28	2	hideo-takahashi\$.in.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/01/21 21:13
S29	2	hideo-takahashi\$.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/01/21 21:13
S30	265	takeda-akira\$.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/01/21 21:14
S31	1313	takahashi-hideo\$.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/01/21 21:14
S32	63	takahashi-hideo\$.in. and hitachi	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/01/21 21:14
S33	2	(takahashi-hideo\$.in. and hitachi) and (personal adj information)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/01/21 21:20
S34	0	"11149504".URPN.	USPAT	OR	OFF	2004/01/21 21:15
S35	0	"6564323".URPN.	USPAT	OR	OFF	2004/01/21 21:17

EAST Search History

S36	420	hitachi and (personal adj information)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/01/21 21:21
S37	2	(hitachi and (personal adj information)) and DNA	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/01/21 21:20
S38	345	hitachi\$.as. and (personal adj information)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/01/21 21:21
S39	5	ezrol-lisa\$.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/01/21 23:00
S40	931	705/2.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/15 19:28
S41	13	705/2.ccls. and (secur\$3 near2 patient near2 information)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/01/21 23:03
S42	10	fingerprint and password and (emergency near5 information) and authentic\$5	USPAT	OR	ON	2004/01/21 23:24
S43	18	fingerprint and password and authentic\$5 and (patient near3 information)	USPAT	OR	ON	2004/01/21 23:24
S44	16	(US-6564323-\$ or US-6073106-\$ or US-6171112-\$ or US-6148342-\$ or US-6564104-\$ or US-6421729-\$ or US-6633915-\$ or US-6658410-\$ or US-6480745-\$ or US-6523009-\$).did. or (US-20020065685-\$ or US-20030135095-\$ or US-20030177030-\$ or US-20020038227-\$).did. or (EP-950972-\$).did. or (JP-11149504-\$).did.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/01/21 23:42
S45	477	(patient near2 information) near5 time	USPAT	OR	ON	2004/01/22 01:15
S46	23	((patient near2 information) near5 time) same emergency	USPAT	OR	ON	2004/01/22 01:15
S52	26	(medical or patient) and (rank\$5 same emergenc\$3)	USPAT	OR	OFF	2005/06/07 15:19

EAST Search History

S53	26	(medical or patient) and (rank\$5 same emergenc\$3)	USPAT	OR	ON	2005/06/07 15:29
S54	26	(US-6819929-\$ or US-6789091-\$ or US-6765991-\$ or US-6747561-\$ or US-6744859-\$ or US-6702997-\$ or US-6699188-\$ or US-6690932-\$ or US-6665395-\$ or US-6587545-\$ or US-6584307-\$ or US-6542905-\$ or US-6415018-\$ or US-6385302-\$ or US-6302844-\$ or US-6000828-\$ or US-5782234-\$ or US-5508912-\$ or US-5463698-\$ or US-5414408-\$ or US-5350564-\$ or US-5280271-\$ or US-5192500-\$ or US-4964894-\$ or US-4164216-\$ or US-3872440-\$).did.	USPAT	OR	OFF	2005/06/07 15:20
S55	26	S54 and (rank\$5 same emergenc\$3)	USPAT	OR	ON	2005/06/07 15:20
S56	25	(medical or patient) and (preference near8 emergenc\$3)	USPAT	OR	ON	2005/06/07 15:30
S57	25	(US-6771163-\$ or US-6731925-\$ or US-6693545-\$ or US-6661340-\$ or US-6649589-\$ or US-6635250-\$ or US-6633754-\$ or US-6611708-\$ or US-6573419-\$ or US-6400265-\$ or US-6321657-\$ or US-6154673-\$ or US-6078804-\$ or US-5903641-\$ or US-5885831-\$ or US-5584291-\$ or US-5502079-\$ or US-5497968-\$ or US-5449692-\$ or US-5446066-\$ or US-5391577-\$ or US-5236957-\$ or US-4778817-\$ or US-4734406-\$ or US-4260580-\$).did.	USPAT	OR	OFF	2005/06/07 15:30
S58	25	S57 and (preference near8 emergenc\$3)	USPAT	OR	ON	2005/06/07 15:32
S59	0	S57 and ((fingerprint or DNA) near8 emergenc\$3)	USPAT	OR	ON	2005/06/07 15:32
S60	7	(medical or patient) same ((fingerprint or DNA) near8 emergenc\$3)	USPAT	OR	ON	2005/06/07 15:36
S61	12	(medical or patient) same ((fingerprint or DNA) near8 emergenc\$3)	US-PGPUB	OR	ON	2005/06/07 17:12
S62	10	fingerprint adj reader and DNA and voiceprint	US-PGPUB; USPAT	OR	ON	2005/06/07 17:13
S63	0	((protect\$3 same sex same (fingerprint) same password))	US-PGPUB; USPAT	OR	ON	2005/12/13 14:18
S64	260	((protect\$3 same (fingerprint) same password))	US-PGPUB; USPAT	OR	ON	2005/12/13 14:16

EAST Search History

S65	94	S64 and authoriz\$5 near5 information	US-PGPUB; USPAT	OR	ON	2005/12/13 14:16
S66	2364	disclosure near5 level	US-PGPUB; USPAT	OR	ON	2005/12/13 14:23
S67	442	S66 and (fingerprint or DNA)	US-PGPUB; USPAT	OR	ON	2005/12/13 14:20
S68	2	S67 and birth adj date	US-PGPUB; USPAT	OR	ON	2005/12/13 14:20
S69	11	disclosure near5 level near5 authentication	US-PGPUB; USPAT	OR	ON	2005/12/13 14:25
S70	2838	level near5 authentication	US-PGPUB; USPAT	OR	ON	2005/12/13 14:26
S71	196	S70 and emergency	US-PGPUB; USPAT	OR	ON	2005/12/13 14:25
S72	0	S70 and (emergency near5 another)	US-PGPUB; USPAT	OR	ON	2005/12/13 14:26
S73	1	S70 and (emergency near5 second)	US-PGPUB; USPAT	OR	ON	2005/12/13 14:26
S74	46	authentication adj2 level same authorized	US-PGPUB; USPAT	OR	ON	2005/12/13 14:27
S75	2	S74 and emergency	US-PGPUB; USPAT	OR	ON	2005/12/13 14:33
S76	24	emergency same authorized adj (person or individual or user) same authentic\$5	US-PGPUB; USPAT	OR	ON	2005/12/13 14:35
S77	1	medical same emergency same authorized adj (person or individual or user) same authentic\$5	US-PGPUB; USPAT	OR	ON	2005/12/13 14:36
S78	54	medical same emergency same authorized adj (person or individual or user)	US-PGPUB; USPAT	OR	ON	2005/12/13 14:37
S79	41	medical near5 emergency same authorized adj (person or individual or user)	US-PGPUB; USPAT	OR	ON	2005/12/13 14:37
S80	28	medical near2 emergency same authorized adj (person or individual or user)	US-PGPUB; USPAT	OR	ON	2005/12/13 14:40
S81	22	patient near5 authoriz\$5 near5 level	US-PGPUB; USPAT	OR	ON	2005/12/13 14:48
S82	2	patient near2 specified same authoriz\$5 near5 level	US-PGPUB; USPAT	OR	ON	2005/12/13 14:49
S83	6	patient near2 specif\$5 same authoriz\$5 near5 level	US-PGPUB; USPAT	OR	ON	2005/12/13 14:50

EAST Search History

S84	4	patient near2 select\$5 same authoriz\$5 near5 level	US-PGPUB; USPAT	OR	ON	2005/12/13 14:51
S85	164	patient near2 select\$5 same authoriz\$5	US-PGPUB; USPAT	OR	ON	2005/12/13 14:51
S86	20	patient near2 select\$5 near5 authoriz\$5	US-PGPUB; USPAT	OR	ON	2005/12/13 14:52



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1 [Posters: A framework of authentication and authorization for e-health services](#)



Song Han, Geoff Skinner, Vidyasagar Potdar, Elizabeth Chang

November 2006 **Proceedings of the 3rd ACM workshop on Secure web services SWS '06**

Publisher: ACM Press

Full text available: [pdf\(166.89 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This article introduces a framework for authentication and authorization in e-health services. It aims to build the architecture for authentication and authorization within an e-health service system. The architecture will help to build a secure and privacy protection e-health service system. The underlying framework will not only inform researchers of a better design for e-health service, but also assist e-health systems developers in the understanding of intricate constructions within authenti ...

Keywords: authentication, authorization, e-health, personal data, privacy

2 [A credibility-based model of computer system security](#)



Shaw-Cheng Chuang, Paul Wernick

September 1996 **Proceedings of the 1996 workshop on New security paradigms**

Publisher: ACM Press

Full text available: [pdf\(741.07 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

3 [Next generation access control models: Role-based access control in ambient and](#)



[remote space](#)

H. F. Wedde, Mario Lischka

June 2004 **Proceedings of the ninth ACM symposium on Access control models and technologies**

Publisher: ACM Press

Full text available: [pdf\(262.20 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In the era of Ubiquitous Computing and world-wide data transfer mobility, as an innovative aspect of professional activities, imposes new andcomplex problems of mobile and distributed access to information,services, and on--line negotiations for this purpose. This paperrestricts itself to presenting a distributed and location--dependentRBAC approach which is multi--layered. Also an adapted form ofAdministration Nets is

presented which allows the scheduling of distributed on-line processes for au ...

Keywords: petri-nets, spatial, work-flow

4 Wireless network security II: ANSWER: autonomous wireless sensor network

 Stephan Olariu, Mohamed Eltoweissy, Mohamed Younis

October 2005 **Proceedings of the 1st ACM international workshop on Quality of service & security in wireless and mobile networks Q2SWinet '05**

Publisher: ACM Press

Full text available:  pdf(282.83 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The main contribution of this work is to propose a new concept: the AutoNomous Wireless sEnsor netwoRk (ANSWER) whose mission is to provide in-situ users with secure information that enhances their context awareness. ANSWER finds immediate applications to both overt and covert operations ranging from tactical battlefield surveillance to crisis management and homeland security. ANSWER is capable of performing sophisticated analyses for detecting trends and identifying unexpected, coherent, and em ...

Keywords: anonymity, autonomous sensor networks, wireless security

5 Network security metrics: Framework for malware resistance metrics

 Hanno Langweg

October 2006 **Proceedings of the 2nd ACM workshop on Quality of protection QoP '06**

Publisher: ACM Press

Full text available:  pdf(170.29 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We survey existing security metrics in software architecture and software engineering. Metrics are adapted to indicate resistance of an application against local malicious software (malware) attacks. A repository of generic attacks is presented as well as the concept of resistance classes for software products.

Keywords: malware, resistance, software architecture

6 Industrial session: Secure search in enterprise webs: tradeoffs in efficient

 implementation for document level security

Peter Bailey, David Hawking, Brett Matson

November 2006 **Proceedings of the 15th ACM international conference on Information and knowledge management CIKM '06**

Publisher: ACM Press

Full text available:  pdf(538.46 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Document level security (DLS) -- enforcing permissions prevailing at the time of search -- is specified as a mandatory requirement in many enterprise search applications. Unfortunately, depending upon implementation details and values of key parameters, DLS may come at a high price in increased query processing time, leading to an unacceptably slow search experience. In this paper we present a model and a method for carrying out secure search in the presence of DLS within enterprise webs. We rep ...

Keywords: access control, caching, collection level security, document level security, enterprise search, file systems, performance, scalability, security models

7

Privacy enhanced mail design and implementation perspectives

D. F. Hadj Sadok, Judith Kelner

July 1994 **ACM SIGCOMM Computer Communication Review**, Volume 24 Issue 3

Publisher: ACM Press

Full text available:  pdf(792.71 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

The introduction of public key crypto-systems has opened the way to using security in distributed applications without imposing huge management overhead. Electronic mail is one area where security is important. Privacy Enhanced Mail is emerging as a de-facto international standard for the interchange of secure e-mail. This paper discusses some of the current problematic issues of PEM and introduces a PEM User Agent developed to test some of its concepts. A number of PEM design and implementation ...

8 Delegation: Trust management with delegation in grouped peer-to-peer communities 

Ajay Ravichandran, Jongpil Yoon

June 2006 **Proceedings of the eleventh ACM symposium on Access control models and technologies SACMAT '06**

Publisher: ACM Press

Full text available:  pdf(263.54 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Trust Management is increasingly playing a major role especially with the growing need for security in decentralized, unsecured networks like peer-to-peer networks. Effective trust management solutions especially one geared towards handling trust in peer groups within peer communities are the key to handle the emerging security threats and scalability issues. Using a delegation infrastructure can provide a tremendous boost in terms of autonomy and division of labor in group based peer-to-peer co ...

Keywords: communities, delegation, peer groups, peer-to-peer, reputation system, trust management

9 Web-based simulation: Web-based simulation 2: the ABELS system: designing an adaptable interface for linking simulations 

G. Ayorkor Mills-Tettey, Greg Johnston, Linda F. Wilson, Joseph M. Kimpel, Bin Xie

December 2002 **Proceedings of the 34th conference on Winter simulation: exploring new frontiers**

Publisher: Winter Simulation Conference

Full text available:  pdf(211.22 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

The Agent-Based Environment for Linking Simulations (ABELS) provides a framework to facilitate the dynamic exchange of data between distributed simulations and other remote data resources. Specifically, the framework allows the formation of a dynamic "data and simulation cloud" that links a heterogeneous collection of networked resources. ABELS consists of three major components: user entities that serve as data producers and/or consumers, a brokering system for organizing and linking the var ...

10 Secure routing in ad hoc networks: Securing quality-of-service route discovery in on-demand routing for ad hoc networks 

Yih-Chun Hu, David B. Johnson

October 2004 **Proceedings of the 2nd ACM workshop on Security of ad hoc and sensor networks**

Publisher: ACM Press

Full text available:  pdf(218.91 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

An ad hoc network is a collection of computers (nodes) that cooperate to forward packets for each other over a multihop wireless network. Users of such networks may wish to use demanding applications such as videoconferencing, Voice over IP, and streaming media when they are connected through an ad~hoc network. Because overprovisioning, a

common technique in wired networks, is often impractical in wireless networks for reasons such as power, cost, and government regulation, Quality of Service ...

Keywords: QoS routing, SQoS, ad hoc networks, quality-of-service, security, simulations

11 The development of destination-specific biometric authentication

 Andrew R. Mark

 April 2000 **Proceedings of the tenth conference on Computers, freedom and privacy: challenging the assumptions**

Publisher: ACM Press

Full text available:  pdf(44.03 KB) Additional Information: [full citation](#), [index terms](#)



12 Interaction techniques for using handhelds and PCs together in a clinical setting

 Ole Andre Alvos, Dag Svanæs

 October 2006 **Proceedings of the 4th Nordic conference on Human-computer interaction: changing roles NordiCHI '06**

Publisher: ACM Press

Full text available:  pdf(743.33 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



In the present study we compare interaction techniques for using handheld devices together with stationary displays in a hospital setting. A set of prototype implementations were developed and tested for a pre-surgery scenario with pairs of physicians and patients. The participants were asked to rank the interaction techniques in order of preference. The results show highest ranking for a distributed user interface where the GUI elements reside on the handheld and where the stationary display is ...

Keywords: electronic patient records, interaction techniques, mobile computing, multi-device user interfaces, ubiquitous computing, usability

13 A service platform for on-line games

 Debanjan Saha, Sambit Sahu, Anees Shaikh

 May 2003 **Proceedings of the 2nd workshop on Network and system support for games NetGames '03**

Publisher: ACM Press

Full text available:  pdf(198.81 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)



Providing a satisfying experience for players of on-line first-person and multiplayer role-playing games is greatly influenced by the distribution and scalability of the game server infrastructure. Deploying a large, dedicated server infrastructure to support a single game title, however, is an expensive approach that does not make the best use of available resources. In this work-in-progress report, we propose a shared, on-demand service platform for hosting on-line games based on grid technolo ...

14 Oral I: Face recognition with Multilevel B-Splines and Support Vector Machines

 Manuele Bicego, Gianluca Iacono, Vittorio Murino

 November 2003 **Proceedings of the 2003 ACM SIGMM workshop on Biometrics methods and applications**

Publisher: ACM Press

Full text available:  pdf(427.53 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



This paper presents a new face recognition system, based on Multilevel B-splines and Support Vector Machines. The idea is to consider face images as heightfields, in which the

height relative to each pixel is given by the corresponding gray level. Such heightfields are approximated using Multilevel B-Splines, and the coefficients of approximation are used as features for the classification process, which is performed using Support Vector Machines. The proposed approach was thoroughly tested, usi ...

Keywords: Multi Level B-splines, Support Vector Machines, face recognition

15 Security: Security for fixed sensor networks

 Ning Hu, Randy K. Smith, Phillip G. Bradford

April 2004 **Proceedings of the 42nd annual Southeast regional conference**

Publisher: ACM Press

Full text available:  pdf(286.79 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Sensor networks consist of resource-constrained sensors operating in a variety of environments. Given the severe constraints on these sensors, it is a particularly challenging problem to choose and design valid security protocols for such networks. This problem has recently given rise to new research addressing the security issues. This paper presents an overview of the important works, specifically the new mechanisms and protocols, which have been introduced or are still under development in th ...

16 Authentication via keystroke dynamics

 Fabian Monrose, Aviel Rubin

April 1997 **Proceedings of the 4th ACM conference on Computer and communications security**

Publisher: ACM Press

Full text available:  pdf(1.18 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

17 Building a champagne helpdesk on a beer budget

 Christian J. Sinnott, Tammy Barr

October 2004 **Proceedings of the 32nd annual ACM SIGUCCS conference on User services**

Publisher: ACM Press

Full text available:  pdf(153.06 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Over the last several years many attempts have been made to obtain commercial helpdesk software for the University. In each case the initial investment and recurring costs far exceeded available funding. With dwindling budgets and increased focus on creating efficiencies, it was imperative that we identify an inexpensive, yet powerful, helpdesk solution for the campus.

The cost savings generated by using Open Source software can be substantial. Server licenses and commercial helpdesk ...

Keywords: call tracking, helpdesk, inventory, knowledgebase, management tools, open source, scheduling, service level agreements, support tools

18 Specifying Kerberos 5 cross-realm authentication

 I. Cervesato, A. D. Jaggard, A. Scedrov, C. Walstad

January 2005 **Proceedings of the 2005 workshop on Issues in the theory of security**

Publisher: ACM Press

Full text available:  pdf(228.62 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Cross-realm authentication is a useful and interesting component of Kerberos aimed at enabling secure access to services astride organizational boundaries. We present a formalization of Kerberos 5 cross-realm authentication in MSR, a specification language based on multiset rewriting. We also adapt the Dolev-Yao intruder model to the cross-realm setting and prove an important property for a critical field in a cross-realm ticket. Finally, we document several failures of authentication and confid ...

19 Wireless network security I: WiMax/802.16 threat analysis

 Michel Barbeau



October 2005 **Proceedings of the 1st ACM international workshop on Quality of service & security in wireless and mobile networks Q2SWinet '05**

Publisher: ACM Press

Full text available:  pdf(138.40 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper examines threats to the security of the WiMax/ 802.16 broadband wireless access technology. Threats associated with the physical layer and MAC layer are reviewed in detail. The likelihood, impact and risk are evaluated according to a threat assessment methodology proposed by the ETSI. Threats are listed and ranked according to the level of risk they represent. This work can be used to prioritize future research directions in WiMax/802.16 security.

Keywords: 802.16, WiMax, threat analysis, wireless network

20 Current practices of leading e-government countries

 Sang M. Lee, Xin Tan, Silvana Trimis



October 2005 **Communications of the ACM**, Volume 48 Issue 10

Publisher: ACM Press

Full text available:  pdf(129.32 KB)  html(29.72 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

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Relevance scale

1 Document recognition and classification: Application of syntactic properties to three-

level recognition of polish hand-written medical texts

Grzegorz Godlewski, Maciej Piasecki, Jerzy Sas

October 2006 **Proceedings of the 2006 ACM symposium on Document engineering DocEng '06**

Publisher: ACM Press

Full text available: [pdf\(171.41 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In the paper, three-level hand-writing recognition using language syntactic properties on the upper level is presented. Isolated characters are recognized on the lowest level. The character classification from the lowest level is used in words recognition. Words are recognized using a combined classifier based on possibly incomplete unigram lexicon. Word classifier builds a rank of the most likely words. Ranks created for subsequent words are input to the syntactic classifier, which recognizes t ...

Keywords: HMM, OCR, PoS tagging, hand-written text, polish

2 Innovation, management & strategy: Shaping new health services landscapes: the

case of DocMorris.com

Hans P. Borgman, Hauke Heier, Andreas Kemper

March 2004 **Proceedings of the 6th international conference on Electronic commerce ICEC '04**

Publisher: ACM Press

Full text available: [pdf\(162.74 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The recent literature investigating the European health care market's efficiency has repeatedly pointed at chronic underperformance and wastefulness. Our analysis goes beyond this critic and investigates the opportunities and limitations of e-Pharmacies as an innovative, technology-based approach to the development of new services landscapes in order to restructure the German health care market. The new prospects are analyzed based on a case study of DocMorris.com. Results of the analysis indica ...

Keywords: customer privacy, customer satisfaction, data security, distribution channels, e-Commerce, health care, online pharmacies

3

Interaction techniques for using handhelds and PCs together in a clinical setting

Ole Andre Alsos, Dag Svanæs

October 2006 **Proceedings of the 4th Nordic conference on Human-computer interaction: changing roles NordiCHI '06**

Publisher: ACM Press

Full text available:  pdf(743.33 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In the present study we compare interaction techniques for using handheld devices together with stationary displays in a hospital setting. A set of prototype implementations were developed and tested for a pre-surgery scenario with pairs of physicians and patients. The participants were asked to rank the interaction techniques in order of preference. The results show highest ranking for a distributed user interface where the GUI elements reside on the handheld and where the stationary display is ...

Keywords: electronic patient records, interaction techniques, mobile computing, multi-device user interfaces, ubiquitous computing, usability

4 Industrial session: Secure search in enterprise webs: tradeoffs in efficient implementation for document level security 

Peter Bailey, David Hawking, Brett Matson

November 2006 **Proceedings of the 15th ACM international conference on Information and knowledge management CIKM '06**

Publisher: ACM Press

Full text available:  pdf(538.46 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Document level security (DLS) -- enforcing permissions prevailing at the time of search -- is specified as a mandatory requirement in many enterprise search applications. Unfortunately, depending upon implementation details and values of key parameters, DLS may come at a high price in increased query processing time, leading to an unacceptably slow search experience. In this paper we present a model and a method for carrying out secure search in the presence of DLS within enterprise webs. We rep ...

Keywords: access control, caching, collection level security, document level security, enterprise search, file systems, performance, scalability, security models

5 Posters: A framework of authentication and authorization for e-health services 

Song Han, Geoff Skinner, Vidyasagar Potdar, Elizabeth Chang

November 2006 **Proceedings of the 3rd ACM workshop on Secure web services SWS '06**

Publisher: ACM Press

Full text available:  pdf(166.89 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This article introduces a framework for authentication and authorization in e-health services. It aims to build the architecture for authentication and authorization within an e-health service system. The architecture will help to build a secure and privacy protection e-health service system. The underlying framework will not only inform researchers of a better design for e-health service, but also assist e-health systems developers in the understanding of intricate constructions within authenti ...

Keywords: authentication, authorization, e-health, personal data, privacy

6 A taxonomy of Data Grids for distributed data sharing, management, and processing 

Srikumar Venugopal, Rajkumar Buyya, Kotagiri Ramamohanarao

June 2006 **ACM Computing Surveys (CSUR)**, Volume 38 Issue 1

Publisher: ACM Press

Full text available:  pdf(1.70 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Data Grids have been adopted as the next generation platform by many scientific communities that need to share, access, transport, process, and manage large data collections distributed worldwide. They combine high-end computing technologies with high-performance networking and wide-area storage management techniques. In this article, we discuss the key concepts behind Data Grids and compare them with other data sharing and distribution paradigms such as content delivery networks, peer-to-peer n ...

Keywords: Grid computing, data-intensive applications, replica management, virtual organizations

7 [Link and channel measurement: A simple mechanism for capturing and replaying wireless channels](#)



Glenn Judd, Peter Steenkiste

August 2005 **Proceeding of the 2005 ACM SIGCOMM workshop on Experimental approaches to wireless network design and analysis E-WIND '05**

Publisher: ACM Press

Full text available:  pdf(6.06 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Physical layer wireless network emulation has the potential to be a powerful experimental tool. An important challenge in physical emulation, and traditional simulation, is to accurately model the wireless channel. In this paper we examine the possibility of using on-card signal strength measurements to capture wireless channel traces. A key advantage of this approach is the simplicity and ubiquity with which these measurements can be obtained since virtually all wireless devices provide the req ...

Keywords: channel capture, emulation, wireless

8 [Transforming health care: Involvement matters: the proper involvement of users and behavioural theories in the design of a medical teleconferencing application](#)



Margit Biemans, Janine Swaak, Marike Hettinga, Jan Gerrit Schuurman

November 2005 **Proceedings of the 2005 international ACM SIGGROUP conference on Supporting group work GROUP '05**

Publisher: ACM Press

Full text available:  pdf(718.06 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

WoundLog is a mobile application that enables district nurses to consult dermatologists, while being in the home situation of the patient. Next to communication tools for teleconferencing and multimedia messaging, it also provides a wound logbook service, and presence, location and availability information of various healthcare professionals. In this paper, we describe the applied user-centred design approach, and a conducted user experiment. The results of the experiment reveal that even distri ...

Keywords: WoundLog, healthcare, mobile application, teleconferencing, user experiment, user-centred design

9 [Authentication via keystroke dynamics](#)



Fabian Monroe, Aviel Rubin

April 1997 **Proceedings of the 4th ACM conference on Computer and communications security**

Publisher: ACM Press

Full text available:  pdf(1.18 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

- 10 Web-based simulation: Web-based simulation 2: the ABELS system: designing an adaptable interface for linking simulations

G. Ayorkor Mills-Tettey, Greg Johnston, Linda F. Wilson, Joseph M. Kimpel, Bin Xie
December 2002 **Proceedings of the 34th conference on Winter simulation: exploring new frontiers**

Publisher: Winter Simulation Conference

Full text available:  pdf(211.22 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

The Agent-Based Environment for Linking Simulations (ABELS) provides a framework to facilitate the dynamic exchange of data between distributed simulations and other remote data resources. Specifically, the framework allows the formation of a dynamic "data and simulation cloud" that links a heterogeneous collection of networked resources. ABELS consists of three major components: user entities that serve as data producers and/or consumers, a brokering system for organizing and linking the var ...

- 11 Face recognition: A literature survey

 W. Zhao, R. Chellappa, P. J. Phillips, A. Rosenfeld

December 2003 **ACM Computing Surveys (CSUR)**, Volume 35 Issue 4

Publisher: ACM Press

Full text available:  pdf(4.28 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

As one of the most successful applications of image analysis and understanding, face recognition has recently received significant attention, especially during the past several years. At least two reasons account for this trend: the first is the wide range of commercial and law enforcement applications, and the second is the availability of feasible technologies after 30 years of research. Even though current machine recognition systems have reached a certain level of maturity, their success is ...

Keywords: Face recognition, person identification

- 12 Privacy and security: an ethical analysis

 Gregory J. Walters

June 2001 **ACM SIGCAS Computers and Society**, Volume 31 Issue 2

Publisher: ACM Press

Full text available:  pdf(1.98 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

- 13 Securing information: Guarding the next Internet frontier: countering denial of information attacks

 Mustaque Ahamed, Leo Mark, Wenke Lee, Edward Omicienski, Andre dos Santos, Ling Liu, Calton Pu

September 2002 **Proceedings of the 2002 workshop on New security paradigms**

Publisher: ACM Press

Full text available:  pdf(918.49 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

As applications enabled by the Internet become information rich, ensuring access to quality information in the presence of potentially malicious entities will be a major challenge. Denial of information (DoI) attacks attempt to degrade the quality of information by deliberately introducing noise that appears to be useful information. The mere availability of information is insufficient if the user must find a needle in a haystack of noise that is created by an adversary to hide critical informat ...

Keywords: countering information attacks, quality of information

14 Using the Internet to improve knowledge diffusion in medicine 

 William M. Detmer, Edward H. Shortliffe

 August 1997 **Communications of the ACM**, Volume 40 Issue 8

Publisher: ACM Press

Full text available:  pdf(576.05 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

15 Complementary structures in disjoint science literatures 

 Don R. Swanson

 September 1991 **Proceedings of the 14th annual international ACM SIGIR conference on Research and development in information retrieval**

Publisher: ACM Press

Full text available:  pdf(1.21 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

16 Towards the digital government of the 21st century 

Herbert Schorr, Salvatore J. Stolfo

May 2002 **Proceedings of the 2002 annual national conference on Digital government research dg.o '02**

Publisher: Digital Government Research Center

Full text available:  pdf(319.96 KB) Additional Information: [full citation](#), [abstract](#)

A partnership between Government agencies and the information technologies research community has succeeded in the past for the benefit of the Nation. The most notable example is the emergence of the Internet as the basis for broad scientific, cultural, civic, and commercial discourse, evolving from what was originally a Government-supported networking research project. The collaborative development of a new applied research domain is critical to help meet the Nation's growing information service ...

17 Towards the digital government of the 21st century: a report from the workshop on research and development opportunities in federal information services 

Herbert Schorr, Salvatore J. Stolfo

May 2000 **Proceedings of the 2000 annual national conference on Digital government research dg.o '00**

Publisher: Digital Government Research Center

Full text available:  pdf(339.17 KB) Additional Information: [full citation](#), [abstract](#)

A partnership between Government agencies and the information technologies research community has succeeded in the past for the benefit of the Nation. The most notable example is the emergence of the Internet as the basis for broad scientific, cultural, civic, and commercial discourse, evolving from what was originally a Government-supported networking research project. The collaborative development of a new applied research domain is critical to help meet the Nation's growing information service ...

18 Computer applications in health care (CACH): Digital geometry image analysis for medical diagnosis 

 Jiandong Fang, Shiaofen Fang, Jeffrey Huang, Mihran Tuceryan

April 2006 **Proceedings of the 2006 ACM symposium on Applied computing SAC '06**

Publisher: ACM Press

Full text available: pdf(102.18 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes a new medical image analysis technique for polygon mesh surfaces of human faces for a medical diagnosis application. The goal is to explore the natural patterns and 3D facial features to provide diagnostic information for Fetal Alcohol Syndrome (FAS). Our approach is based on a digital geometry analysis framework that applies pattern recognition techniques to digital geometry (polygon mesh) data from 3D laser scanners and other sources. Novel 3D geometric features are extrac ...

Keywords: 3D facial analysis, classifier, digital geometry, fetal alcohol syndrome, medical diagnosis, pattern recognition

- 19 [Secure routing: SIGF: a family of configurable, secure routing protocols for wireless sensor networks](#)

Anthony D. Wood, Lei Fang, John A. Stankovic, Tian He

October 2006 **Proceedings of the fourth ACM workshop on Security of ad hoc and sensor networks SASN '06**

Publisher: ACM Press

Full text available: pdf(333.62 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

As sensor networks are deployed in adversarial environments and used for critical applications such as battlefield surveillance and medical monitoring, security weaknesses become a big concern. The severe resource constraints of WSNs give rise to the need for *resource bound security* solutions. In this paper we present SIGF (Secure Implicit Geographic Forwarding), a configurable secure routing protocol family for wireless sensor networks that provides "good enough" security and high perform ...

Keywords: secure routing, wireless sensor network

- 20 [Information systems security design methods: implications for information systems development](#)

Richard Baskerville

December 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 4

Publisher: ACM Press

Full text available: pdf(3.44 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The security of information systems is a serious issue because computer abuse is increasing. It is important, therefore, that systems analysts and designers develop expertise in methods for specifying information systems security. The characteristics found in three generations of general information system design methods provide a framework for comparing and understanding current security design methods. These methods include approaches that use checklists of controls, divide functional req ...

Keywords: checklists, control, integrity, risk analysis, safety, structured systems analysis and design, system modeling

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IEEE JNL IEEE Journal or Magazine

IEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

- 1. Federated, secure trust networks for distributed healthcare IT services**
Weaver, A.C.; Dwyer, S.J., III; Snyder, A.M.; Van Dyke, J.; Hu, J.; Chen, X.; Marshall, A.; [Industrial Informatics, 2003. INDIN 2003. Proceedings. IEEE International Conference on](#) 21-24 Aug. 2003 Page(s):162 - 169
Digital Object Identifier 10.1109/INDIN.2003.1300264
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Digital Object Identifier 10.1109/CBMS.2003.1212774
[AbstractPlus](#) | Full Text: [PDF\(354 KB\)](#) IEEE CNF
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- 3. Achieving Data Privacy and Security Using Web Services**
Weaver, A.C.; [Industrial Technology, 2005. ICIT 2005. IEEE International Conference on](#) 14-17 Dec. 2005 Page(s):P1 - P1
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13-17 March 2006 Page(s):5 pp.
Digital Object Identifier 10.1109/PERCOMM.2006.113
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6. **Critical analysis of high speed wireless standards for transferring telemedicine information**
Shaikh, F.; Lasebae, A.; Whitney, G.;
Information and Communication Technologies: From Theory to Applications, 2004 International Conference on
19-23 April 2004 Page(s):45
Digital Object Identifier 10.1109/ICTTA.2004.1307603
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7. **Tamper detection and retrieval technique based on JPEG2000 with LL subband**
Tung-Shou Chen; Chen, J.; Jian-Guo Chen;
Networking, Sensing and Control, 2004 IEEE International Conference on
Volume 2, 2004 Page(s):1235 - 1240 Vol.2
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IEEE JNL IEEE Journal or Magazine

IEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

1. A class of authentication digital watermarks for secure multimedia comm
Liehua Me; Arce, G.R.;
[Image Processing, IEEE Transactions on](#)
Volume 10, Issue 11, Nov. 2001 Page(s):1754 - 1764
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The first is an image associated with your **rank**; generally these take the ... stored behind **authentication** mechanisms such as Hotmail or Yahoo mailboxes, ...

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authentication level rank	<input type="button" value="Search"/>	Advanced Search
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the higher level threat. Bypassing **authentication** can be addressed by ensuring that all ...

The threat **ranking** can be used to prioritize risk mitigation, ...

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